

## Self-Provisioned Fiber (SPF) Chronology

The Department of Information and Instructional Technology (DIIT) seeks continued support for the Self-Provisioned Fiber (SPF) initiative, a long-term districtwide program that ensures uninterrupted network connectivity for all DeKalb County School District schools, data centers, and administrative facilities.

As the district increasingly relies on digital platforms to support teaching, learning, school safety, and operational functions, reliable connectivity has become essential. Any interruption to the fiber network could impact student instruction, assessments, communications, safety systems, and core district operations. The SPF initiative provides a sustainable approach to maintaining the district's fiber assets and ensuring that schools and departments remain connected, functional, and fully supported.

SPF is not a one-time infrastructure project but a critical, ongoing investment in the physical network that supports the district's daily instructional and operational needs. Continued support for SPF helps protect school operations, reduce downtime when fiber damage occurs, and maintain a stable and resilient digital learning environment.

### Key Services:

Zayo designed and built the district's fiber network and has provided maintenance for the past 15 years. Their continued support ensures alignment with the original network architecture and preserves institutional knowledge of fiber routes, splice locations, termination points, and documentation.

- **Proactive monitoring of the Self-Provisioned Fiber network**  
Zayo monitors fiber routes for early indicators of signal degradation, abnormal light levels, or interruptions in data transmission. Early detection allows issues to be addressed before they impact school connectivity or disrupt instructional technology.
- **Troubleshooting of fiber faults and performance issues**  
If connectivity issues arise, Zayo isolates the affected segment of fiber, identifies the cause of the fault, and performs the necessary repairs. This may include repairing damaged lines, adjusting equipment, or resolving environmental impacts that affect fiber performance.
- **Emergency restoration following accidental or environmental damage**  
In cases of damage caused by construction work, weather events, or other external conditions, Zayo provides rapid response and restoration services. Emergency restoration helps return school systems to normal operation quickly and minimizes disruptions to instruction, safety systems, communications, and district operations.
- **Preventative maintenance and testing of fiber segments and splice enclosures**  
Zayo performs scheduled testing of fiber segments and splice locations to verify signal strength, ensure proper enclosure sealing, and detect wear or aging in the fiber. Preventative work reduces the likelihood of unexpected outages and supports long-term reliability of the network.
- **Documentation and updates to fiber maps and physical infrastructure records**  
As the network evolves, Zayo updates fiber route maps, splice diagrams, and infrastructure logs. Accurate documentation ensures that technicians have access to

current records when troubleshooting or performing repairs and supports the district's long-term ability to manage and maintain the network.

The maintenance services provided by Zayo support the stability and continuity of instruction and district operations by ensuring that the fiber network remains monitored, protected, and quickly restorable when issues occur.

### **Financial Impact**

<b>Year</b>	<b>Cost</b>
2023	\$205,320
2024	\$205,320
2025	\$205,320
2026	\$205,320 (requested)